## 20 May 1950

Special Assistant to the Director for Planning and

Development and Deputy Director, DFS/DCI

Director of D and P, DPS/DCI THE ST

Review of Photo Configuration Reliability

- 1. It is the intent of this memorandum to review the reliability of the various photo configurations at Detachments from 7 March to the present date and to indicate the type and causes of malfunctions.
- 2. TRACKER There were 67 missions (operational and test) run from early March to 18 May. These included photo, Elint and training missions using only the Tracker. Eleven malfunctions were experienced during the M missions, giving a reliability of 80%. The primary cause of malfunction was the metering micro switch. The fix was to add an resistor to the circuit to prevent overload and arcing. The last malfunction was at on 17 May when the Tracker malfunctioned during descent because of dirt in the relay contacts.
- 3. A-1 Very few missions were run with this configuration. From 15 June 1956 to 27 March 1958 only 34 missions, all test or training were escondished. There were 10 malfunctions, giving a reliability of 715. Moveyer, only on 2 occasions did two cameras fail during any one Mission. Cally one comera failed during each of the remaining 8 missions. The cause of failures in the 10 missions were attributed primarily to shutters (5), magnetine (3) and personnel errors (2). The last mission, a training flight on 27 March was successful, but it was a short mission.
- 6 May 1958. With the exception of 2 counter stoppages, due to loose A. A. A total of 15 missions were run during the period Il March rical connections and a shutter blade link arm breakage 15 cycles prior to end of mission all missions were completely successful. Because of the minor mulfunction (counter stoppege) and the timing of the shutter metion for statistical purposes it can be stated the A-2 operated with a reliability of 100%.

25X1A

25X1A

L. Burg

## Approved For Release 2002/10/29 : CIA-RDP63-00313A000600010014-0

## SECRET

25X1A	5. B - A total of 33 missions (training and operational) were flown with the modified B's between 7 March and 15 May 1955. There were 11 multimetions during this period giving a reliability of 675. Right (8) of the failures were attributed to shutter malfunctions. All of shutter multimetions were due to failure of the K-2 relay or to the deteriofication of the mickel plating on the latch pin working surfaces which cause mislatching or trip failure. Two (2) failures were caused by film wrapping around the metering relier. Both of these malfunctions occurred at
20/1/	coal was a direct result of elimatic conditions. When recommended BOF's were subspect this type of failure was eliminated. The eleventh B malforation (Mission 1409) was attributed to the failure of the camera tension serve microswitch, causing the film to wrap on the metering roll.
25X1A	A. When the shutter malfunctions were discussed with 25X1A it became apparent we are again experiencing a quality control problem and a lethargic attitude in pre-flighting and post-
25X1A	remain the above deficiencies.
25X1A	
25X1A	BPS/DCI bas  Distribution: Orig Addressee 2 Director of D and P
25X1A	5 Chrono (Contracts)